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L8
      ANSWER 1 OF 3 CAPLUS COPYRIGHT 2004 ACS on STN
AN
      1986:6843 CAPLUS
DN
     104:6843
     Entered STN: 11 Jan 1986
ED
TI
     Fogging-resistant transparent articles
     Matsuzaki, Yasuo
IN
PA
     Japan
     Jpn. Kokai Tokkyo Koho, 4 pp.
SO
     CODEN: JKXXAF
DT
     Patent
LA
     Japanese
IC
     ICM C08J007-06
     ICS B29C071-04; C08J007-12
CC
     38-3 (Plastics Fabrication and Uses)
FAN CNT 1
     PATENT NO.
                       KIND
                                             APPLICATION NO.
                             DATE
PI
     JP 60141727
                        A2
                             19850726
                                            JP 1983-248985
                                                              19831228 <--
PRAI JP 1983-248985
                             19831228
     Fogging-resistant transparent articles are prepared by treating plastic
     articles with plasma at low temperature, saponifying with a strong alkali
solution, and
     coating with a surfactant. Thus, a 0.6-mm poly(ethylene terephthalate)
     [25038-59-9] transparent film was plasma-treated in an Ar-N atmospheric for 1
     min, immersed in 1% NaOH aqueous solution for 2 h and in 5% aqueous solution of
     Quartamin P (cationic surfactant) for 1 h, and dried.
     polyethylene terephthalate film fogging resistance; plasma treatment
\operatorname{ST}
     polyethylene terephthalate film; surfactant treatment polyethylene
     terephthalate film; sodium hydroxide treatment polyester film
IT
     Antifogging agents
         (cationic surfactants, for plastic films treated with plasma and alkali
        solution)
     Polycarbonates
{
m IT}
     RL: USES (Uses)
        (films, plasma-, alkali aqueous solution- and cationic surfactant-treated,
        transparent, fogging-resistant)
     Plastics, film
{f TT}
     RL: USES (Uses)
        (plasma-, alkali aqueous solution- and cationic surfactant-treated,
        transparent, fogging-resistant)
     Quaternary ammonium compounds, uses and miscellaneous
IT
     RL: USES (Uses)
        (surfactants, plastic films treated with, transparent,
        fogging-resistant)
     Plasma, chemical and physical effects
\operatorname{IT}
        (treatment by, of plastic films, for improved fogging resistance)
IT
     Surfactants
        (cationic, antifogging agents, for plastic films treated with plasma
        and alkali solution)
     1310-58-3, uses and miscellaneous 1310-73-2, uses and miscellaneous
IT
     RL: USES (Uses)
        (aqueous solution, plastic films treated with, transparent,
fogging-resistant)
     24937-78-8
                  25038-54-4, uses and miscellaneous
                                                        25038-59-9, uses and
     miscellaneous
     RL: USES (Uses)
        (films, plasma-, alkali aqueous solution- and cationic surfactant-treated,
        transparent, fogging-resistant)
     56-81-5, uses and miscellaneous
IT
   RL: USES (Uses)
        (sodium hydroxide aqueous solution containing, plastic films treated with,
        transparent, fogging-resistant)
RN
     1310-58-3
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1310-73-2
RN
     24937-78-8
RN
     25038-54-4
RN
     25038-59-9
RN
     56-81-5
RN
     ANSWER 2 OF 3 WPIDS COPYRIGHT 2004 THOMSON DERWENT on STN
L8
     1986-037824 [06]
                        WPIDS
AN
    C1986-015845
DNC
     Clouding-resistant transparent plastics preparation - by low temperature plasma
TI
     treating plastic surface, saponifying with strong alkaline solution and
     coating with surfactant.
     A35
DC
     (MATS-I) MATSUZAKI Y
PA
CYC
     JP 60141727 A 19850726 (198606)*
                                               4p
PI
     JP 60141727 A JP 1983-248985 19831228
ADT
PRAI JP 1983-248985 , 19831228
     B29C071-04; C08J007-06
IC
     JP 60141727 A UPAB: 19930922
AB
     The surface of a transparent plastic is first low temperature-plasma treated,
     and then saponified with strong alkaline solution and then coated with
     surfactant. Transparent plastics are pref. polyesters, polycarbonates,
     polyamides, polyacrylates, polymethacrylates, polyolefins and polyvinyl
     chlorides. Examples of strong alkaline solns. are alkali metal or alkaline
     earth metal oxide or hydroxide such as NaOH, KOH, LiOH, calcium hydroxide
     or barium hydroxide, or their mixts. The surfactant is pref. a nonionic
     fluorine-containing surfactant.
          USE/ADVANTAGE - Surface hardness, transparency and cloud-resistance
     are good. Used as eye glasses, mirrors, etc..
          In an example, a transparent polyester film (polyethylene
     terephthalate, 0.6mm thick) was plasma-treated for 1 minute. This was
     dipped in 1% -NaOH solution at 50 deg.C for 2 hours, and after washing with
     water and drying, dipped in a 5% -Coatamine aqueous solution (cationic
     surfactant) at 50 deg.C for 1 hour and then dried with air.
     0/1
     CPI
FS
     AB
FA
     CPI: A08-S08; A09-A02; A10-E09; A11-C04B2; A11-C04E; A12-L03
MC
                            (C) 2004 JPO on STN
     ANSWER 3 OF 3 JAPIO
\Gamma8
     1985-141727
                    JAPIO
NA
     MANUFACTURE OF ANTIFOGGING TRANSPARENT PRODUCT
TI
     MATSUZAKI YASUO
IN
     MATSUZAKI YASUO
PA
     JP 60141727 A 19850726 Showa
PI
     JP 1983-248985 (JP58248985 Showa) 19831228
ΑI
PRAI JP 1983-248985
                         19831228
     PATENT ABSTRACTS OF JAPAN (CD-ROM), Unexamined Applications, Vol. 1985
SO
     ICM C08J007-06
IC
     ICS B29C071-04; C08J007-12
     PURPOSE: To obtain a transparent product provided with high antifogging
AB
     potential without impairing its inherent characteristics, by performing
     low-temperature plasma treatment of the surface of a plastic followed by
     saponification of the surface with a strong alkali and furthermore,
     coating on it a surfactant.
     CONSTITUTION: The surface of a transparent plastic is subjested to
     low-temperature plasma treatment followed by saponification of the
     resulting with a strong alkaline solution and furthermore, coating on it a
     surfactant, thus obtaining the objective product. Said plastic is e.g. of
     polyester, polycarbonate, polyamide, polyolefin. The alkaline solution is
     pref. a 0.1∼5% aqueous solution of combination of NaOH and KOH with
     the molar ratio 1/1∼ 9/1. A nonionic fluorine-based surfactant is pref.
     used.
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